

**NOTICE OF DRAFTPERSON'S
PATENT DRAWING REVIEW**The drawing filed (insert date) 12/10/98 are:A. not objected to by the Draftperson under 37 CFR 1.84 or 1.152.B. X objected to by the Draftperson under 37 CFR 1.84 or 1.152 as indicated below. The Examiner will require submission of new, corrected drawings where necessary. Corrected drawings must be submitted according to the instructions on the back of this notice.**1. DRAWINGS. 37 CFR 1.84(a): Acceptable categories of drawings:**
Black ink. Color. Color drawing are not acceptable until petition is granted.Fig.(s) Pencil and non black ink is not permitted. Fig(s) **2. PHOTOGRAPHS. 37 CFR 1.84(b)** Photographs are not acceptable until petition is granted, 3 full-tone sets are required. Fig(s) Photographs not properly mounted (must byristol board or photographic double-weight paper). Fig(s) Poor quality (half-tone). Fig(s) **3. TYPE OF PAPER. 37 CFR 1.84(e)** Paper not flexible, strong, white and durable.Fig.(s) Erasures, alterations, overwritings, interlineations, folds, copy machine marks not acceptable. (too thin) Mylar, vellum paper is not acceptable (too thin).Fig(s) **4. SIZE OF PAPER. 37 CFR 1.84(f): Acceptable sizes:** 21.0 cm by 29.7 cm (DIN size A4)X 21.6 cm by 27.9 cm (8 1/2 x 11 inches) All drawings sheets not the same size.Sheet(s) **5. MARGINS. 37 CFR 1.84(g): Acceptable margins:**Top 2.5 cm Left 2.5 cm Right 1.5 cm Bottom 1.0 cm
SIZE: A4 SizeTop 2.5 cm Left 2.5 cm Right 1.5 cm Bottom 1.0 cm
SIZE: 8 1/2 x 11X Margins not acceptable. Fig(s) X Top (T) Left (L)X Right (R) Bottom (B)**6. VIEWS. CFR 1.84(h)**

REMINDER: Specification may require revision to correspond to drawing changes.

 Views connected by projection lines or lead lines.Fig.(s)

Partial views. 37 CFR 1.84(h)(2)

 Brackets needed to show figure as one entity.Fig.(s) Views not labeled separately or properly.Fig.(s) Enlarged view not labeled separately or properly.Fig.(s) **7. SECTIONAL VIEWS. 37 CFR 1.84(h)(3)** Hatching not indicated for sectional portions of an object.Fig.(s) Sectional designation should be noted with Arabic orRoman numbers. Fig.(s) **8. ARRANGEMENT OF VIEWS. 37 CFR 1.84(i)** Words do not appear on a horizontal, left-to-right fashion when page is either upright or turned, so that the top becomes the right side, except for graphs. Fig.(s) Views not on the same plane on drawing sheet. Fig.(s) **9. SCALE. 37 CFR 1.84(k)** Scale not large enough to show mechanism without crowding when drawing is reduced in size to two-thirds in reproduction.Fig.(s) **10. CHARACTER OF LINES, NUMBERS, & LETTERS. 37 CFR 1.84(l)**X Lines, numbers & letters not uniformly thick and well defined, clean, durable and black (poor line quality).Fig.(s) 1-17**11. SHADING. 37 CFR 1.84(m)** Solid black areas pale. Fig.(s) Solid black shading not permitted. Fig.(s) Shade lines, pale, rough and blurred. Fig.(s) **12. NUMBERS, LETTERS, & REFERENCE CHARACTERS.**

37 CFR 1.48(p)

 Numbers and reference characters not plain and legible.Fig.(s) Figure legends are poor. Fig.(s) Numbers and reference characters not oriented in the samedirection as the view. 37 CFR 1.84(p)(3) Fig.(s) English alphabet not used. 37 CFR 1.84(p)(3) Fig.(s) Numbers, letters and reference characters must be at least.32 cm (1/8 inch) in height. 37 CFR 1.84(p)(3) Fig.(s) **13. LEAD LINES. 37 CFR 1.84(q)** Lead lines cross each other. Fig.(s) Lead lines missing. Fig.(s) **14. NUMBERING OF SHEETS OF DRAWINGS. 37 CFR 1.48(u)** Sheets not numbered consecutively, and in Arabic numerals beginning with number 1. Fig.(s) **15. NUMBERING OF VIEWS. 37 CFR 1.84(u)** Views not numbered consecutively, and in Arabic numerals,beginning with number 1. Fig.(s) **16. CORRECTIONS. 37 CFR 1.84(w)** Corrections not made from PTO-948 dated **17. DESIGN DRAWINGS. 37 CFR 1.152** Surface shading shown not appropriate. Fig.(s) Solid black shading not used for color contrast.Fig.(s)

COMMENTS

REVIEWER ATTACHMENT TO PAPER NO. 4

PTO COPY

DATE 2/6/99TELEPHONE NO. 703 345 8945

REMINDER

Drawing changes may also require changes in the specification, e.g., if Fig. 1 is changed to Fig. 1A, Fig. 1B, Fig. 1C, etc., the specification, at the Brief Description of the Drawings, must likewise be changed. Please make such changes by 37 CFR 1.312 Amendment at the time of submitting drawing changes.

INFORMATION ON HOW TO EFFECT DRAWING CHANGES

1. Correction of Informalities--37 CFR 1.85

File new drawings with the changes incorporated therein. The application number or the title of the invention, inventor's name, docket number (if any), and the name and telephone number of a person to call if the Office is unable to match the drawings to the proper application, should be placed on the back of each sheet of drawings in accordance with 37 CFR 1.84(c). Applicant may delay filing of the new drawings until receipt of the Notice of Allowability (PTOL-37). Extensions of time may be obtained under the provisions of 37 CFR 1.136. The drawing should be filed as a separate paper with a transmittal letter addressed to the Drawing Review Branch.

2. Timing of Corrections

Applicant is required to submit **acceptable** corrected drawings within the three-month shortened statutory period set in the Notice of Allowability (PTOL-37). If a correction is determined to be unacceptable by the Office, applicant must arrange to have acceptable correction resubmitted within the original three-month period to avoid the necessity of obtaining an extension of time and paying the extension fee. Therefore, applicant should file corrected drawings as soon as possible.

Failure to take corrective action within set (or extended) period will result in **ABANDONMENT** of the Application.

3. Corrections other than Informalities Noted by the Drawing Review Branch on the Form PTO 948

All changes to the drawings, other than informalities noted by the Drawing Review Branch, **MUST** be approved by the examiner before the application will be allowed. No changes will be permitted to be made, other than correction of informalities, unless the examiner has approved the proposed changes.